

Rui-Qing Hou

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

933
citations

516710

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h-index

677142

22
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22
all docs

22
docs citations

22
times ranked

907
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnesium degradation under physiological conditions – Best practice. <i>Bioactive Materials</i> , 2018, 3, 174-185.	15.6	177
2	EIS analysis on chloride-induced corrosion behavior of reinforcement steel in simulated carbonated concrete pore solutions. <i>Journal of Electroanalytical Chemistry</i> , 2013, 688, 275-281.	3.8	148
3	In vitro evaluation of the ZX11 magnesium alloy as potential bone plate: Degradability and mechanical integrity. <i>Acta Biomaterialia</i> , 2019, 97, 608-622.	8.3	86
4	Recent progress on coatings of biomedical magnesium alloy. <i>Smart Materials in Medicine</i> , 2022, 3, 104-116.	6.7	75
5	Microstructural influence on corrosion behavior of MgZnGe alloy in NaCl solution. <i>Journal of Alloys and Compounds</i> , 2019, 783, 179-192.	5.5	61
6	Different effects of single protein vs. protein mixtures on magnesium degradation under cell culture conditions. <i>Acta Biomaterialia</i> , 2019, 98, 256-268.	8.3	51
7	Exploring the effects of organic molecules on the degradation of magnesium under cell culture conditions. <i>Corrosion Science</i> , 2018, 132, 35-45.	6.6	42
8	Insight into the anti-corrosion performance of electrodeposited silane/nano-CeO ₂ film on carbon steel. <i>Surface and Coatings Technology</i> , 2017, 326, 183-191.	4.8	33
9	Adsorption of Proteins on Degradable Magnesium – Which Factors are Relevant?. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42175-42185.	8.0	33
10	A robust calcium carbonate (CaCO ₃) coating on biomedical MgZnCa alloy for promising corrosion protection. <i>Corrosion Science</i> , 2022, 198, 110124.	6.6	29
11	The stress corrosion cracking behaviour of biomedical Mg-1Zn alloy in synthetic or natural biological media. <i>Corrosion Science</i> , 2020, 175, 108876.	6.6	27
12	Improved biocompatibility and degradation behavior of biodegradable Zn-1Mg by grafting zwitterionic phosphorylcholine chitosan (PCCs) coating on silane pre-modified surface. <i>Applied Surface Science</i> , 2020, 527, 146914.	6.1	27
13	Localized Corrosion of Binary Mg-Ca Alloy in 0.9wt% Sodium Chloride Solution. <i>Acta Metallurgica Sinica (English Letters)</i> , 2016, 29, 46-57.	2.9	23
14	Investigation and application of mussel adhesive protein nanocomposite film-forming inhibitor for reinforced concrete engineering. <i>Corrosion Science</i> , 2019, 153, 333-340.	6.6	22
15	Controllable degradation of medical magnesium by electrodeposited composite films of mussel adhesive protein (Mefp-1) and chitosan. <i>Journal of Colloid and Interface Science</i> , 2016, 478, 246-255.	9.4	18
16	Influence of Zirconium (Zr) on the microstructure, mechanical properties and corrosion behavior of biodegradable zinc-magnesium alloys. <i>Journal of Alloys and Compounds</i> , 2020, 840, 155792.	5.5	18
17	A comprehensive comparison of the corrosion performance, fatigue behavior and mechanical properties of micro-alloyed MgZnCa and MgZnGe alloys. <i>Materials and Design</i> , 2020, 185, 108285.	7.0	17
18	Corrosion inhibition of pre-formed mussel adhesive protein (Mefp-1) film to magnesium alloy. <i>Corrosion Science</i> , 2020, 164, 108309.	6.6	15

#	ARTICLE	IF	CITATIONS
19	Tailoring of Biodegradable Magnesium Alloy Surface with Schiff Base Coating via Electrostatic Spraying for Better Corrosion Resistance. <i>Metals</i> , 2022, 12, 471.	2.3	10
20	Proteins and medium-flow conditions: how they influence the degradation of magnesium. <i>Surface Innovations</i> , 2020, 8, 224-233.	2.3	8
21	Effects of proteins on magnesium degradation - static vs. dynamic conditions. <i>Journal of Magnesium and Alloys</i> , 2023, 11, 1332-1342.	11.9	7
22	Heating-Induced Enhancement of Corrosion Protection of Carbon Steel by a Nanocomposite Film Containing Mussel Adhesive Protein. <i>Journal of the Electrochemical Society</i> , 2017, 164, C188-C193.	2.9	6